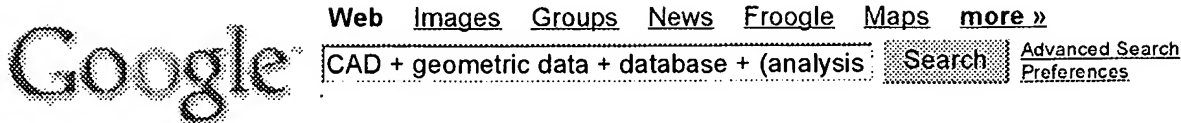


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CAD & CAE FAQ's

CAM – computer aided manufacturing, using a part **geometry database** to ... is done with a **CAD** like preprocessor to the FEA software, or **geometry data** can be ...

www.deepsoftinc.com/CAD-CAE-FAQ.HTM - 15k - [Cached](#) - [Similar pages](#)

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Database. – MS/Access. • **Geometry engine**, parametric **CAD & CAE** model creation. – Unigraphics ... **Marketing data.** – Responses - **analysis** results

ocw.mit.edu/.../16-888Spring-2004/678F23AD-7FB2-4498-9DC8-29C0E93C2EAF/0/120_gmfenyes_2.pdf - [Similar pages](#)

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FE model is built once - automatically updated as **geometry** changes ... Generated **analysis** models. – Exchanged **data** through **database** ...

ocw.mit.edu/.../16-888Spring-2004/72F1E736-A13B-4303-9F1A-ACC78B17D367/0/120_gmfenyes_3.pdf - [Similar pages](#)

About Cadcorp - News Press Release

In addition, grid functionality is provided to support slope, aspect and gradient **analysis**.

Geometric data processing. Cadcorp SIS V6.2 extends users ...

www.cadcorp.com/press_releases/2005_pr18.htm - 29k - [Cached](#) - [Similar pages](#)

CAE Data and Processes Under Control

While in the area of **geometry data (CAD)** the use of product **data** management systems ... of the end conditions, and the **analysis** of the simulation results. ...

www.altair.com/corporat/press/20050804b.htm - 21k - [Cached](#) - [Similar pages](#)

Closing the Gap Between CAD Model and Downstream Application

Although much of the emphasis at the workshop was on "CAD **geometry** and ... New "standards" for communicating geometrical **data** between CAD and CFD need to be ...

www.siam.org/siamnews/06-99/cadmodel.htm - 29k - [Cached](#) - [Similar pages](#)

Feature Article - New Approaches to CAD "Integration" - 06/01

Alternatively, engineers can click on a part in the **CAD** model to display the associated non-**geometric data**, now EnCapta **data**. Without leaving the **CAD** system ...

www.autofieldguide.com/articles/060101.html - 22k - [Cached](#) - [Similar pages](#)

Manipulating Geometry in a STEP DB from Commercial CAD Systems ...

Analysis of the STEP Standard **Data** Access Interface Using Formal Methods ... of **Geometric Functions** for Ship Structural **CAD** Using a STEP **Database** as Native ...

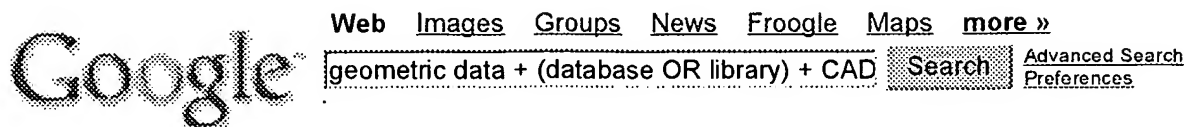
cer.sagepub.com/cgi/content/refs/12/1/49 - [Similar pages](#)

Gridgen Version 14.01 Release Notes

CAD data may be imported into the **database** from CATIA v4, Pro/E v17-20, ... functions are available when Examine is invoked from the ANALYSIS SOFTWARE menu. ...

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CAD. geometry and finite element data can be ... **mesh** when applied to the **geometry**.

Multiple. **analysis** jobs can be initiated, controlled, ...

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First, part **geometry** is imported from a Parasolid based CAD system. ... **Data** accessed for **finite element mesh** generation and application of loads and ...

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Sets **analysis** type; Checks input **data** consistency; User subroutine integration ...

Whenever the underlying **geometry** changes, the **mesh** is automatically ...

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idealized **geometry**, with its associated detailed **finite element** models and **analysis**. results (FEM/FEA), including associated **analysis** version control **data** ...

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data structures also allow analysts to easily share **FE data** to perform ... **CAD geometry** to the needs of their **analysis**. For example, analysts can use these ...

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Nastran – Basic provides access to a broad **library** of **finite element** ...

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[InCAD Competitive Advantages](#)

ALGOR's InCAD technology provided direct **CAD/CAE data** exchange of this subsoiler ...

solid **geometry** into plate or **shell** elements with automatic handling of ...

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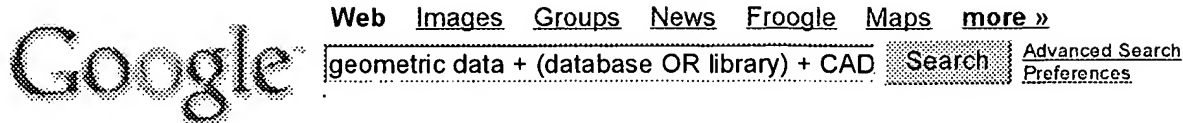
to model our **geometry** CAD-style input after the popular AutoCAD(TM) ...

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RK Irani, M Saxena - Engineering with Computers, 1993 - Springer

... based solid modeler like GEOMOD, a **CAD** system like ... assign- ing multiple features to the same **geometry**. ... functions for archival and retrieval of features **data**. ...

[Cited by 3](#) - [Web Search](#) - [BL Direct](#)

[Development of geometrically exact new shell elements based on general curvilinear coordinates - group of 4 »](#)

M Cho, HY Roh - International Journal for Numerical Methods in Engineering, 2003 - doi.wiley.com

... surface using NURBS surface representations in the **CAD** system ... for eciency and accuracy in the **analysis** module ... surface of the **shell**; and (b) **shell geometry** in the ...

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[A GENERAL TOPOLOGY-BASED MESH DATA STRUCTURE - group of 5 »](#)

MW BEALL, MS SHEPHARD - International Journal for Numerical Methods in Engineering, 1997 - doi.wiley.com

... the procedures that create and/or use that **data**. ... **geometric** domains commonly used for **analysis** processes ... The representation of general **geometric** domains requires ...

[Cited by 75](#) - [Web Search](#) - [BL Direct](#)

["Methodologies for Structural Optimisation of a Thrust Reverser Cascade Using a Multidisciplinary ... - group of 2 »](#)

J Butterfield, H Yao, M Price, CG Armstrong, S ... - Paper Reference: AIAA-2003-0107. American Institute of ..., 2003 - pdf.aiaa.org

... bottom faces of each surface were generated using three **data** inputs. ... of the material omitted as part of this **geometric** idealisation ... 2D **CAD** Section **Shell** Section ...

[Cited by 2](#) - [Web Search](#)

[Feature transformations between application-specific feature spaces - group of 3 »](#)

JJ Shah - Computer-Aided Engineering Journal, 1988 - ieeeexplore.ieee.org

... out **FE analysis** from solid model **data** involves the ... or irrelevant to the particular **analysis**, as shown in ... it by operating on the remaining **geometric** entities. ...

[Cited by 43](#) - [Web Search](#)

[Structural shape optimization integrated with CAD environment - group of 2 »](#)

Y Gu, G Cheng - Structural and Multidisciplinary Optimization, 1990 - Springer

... proposed in MESHG to interface it with **geometric** modelling soft ... **data** interface commonly used in commercial **CAD** software, such as the **data** interfaces for ...

[Cited by 5](#) - [Web Search](#)

[... Application of Knowledge Based Engineering Techniques to the Finite Element Mesh Generation of an ... - group of 2 »](#)

M PINFOLD - Journal of Engineering Design, 1999 - Taylor & Francis

... in this area, because **CAD** systems create a **geometric** model and, through **data** transfer or ... pass the model to other systems, and thus **CAD** vendors suggest that ...

[Cited by 1](#) - [Web Search](#) - [BL Direct](#)

[Interactive-adaptive geometrically nonlinear analysis of shell structures - group of 3 »](#)



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[Methods and algorithms of automated CAD repair for incremental surface meshing - group of 3 »](#)

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AA Mezentssev, T Woehler - Proceedings, 8th International Meshing Round Table, 1999 - cadmesh.homeunix.com

... errors and features, which are stored in the **data** structure, by ... as given in Figure

5. The dependent **CAD** repair starts ... Decompose **geometric** domain to convex ones ...

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[Mesh adaption and automatic differentiation in a CAD-free framework for optimal shape design - group of 4 »](#)

B Mohammadi, O Pironneau - International Journal for Numerical Methods in Fluids, 1999 - doi.wiley.com

... the discretization points on the **geometry** and x ... structured solver because that the

data structures involved ... that this approach including the **CAD-free** framework ...

[Cited by 13](#) - [Web Search](#) - [BL Direct](#)

[\[PS\] Unstructured Mesh Generation: Theory, Practice, and Perspectives - group of 6 »](#)

SH Teng, CW Wong - International Journal of Computational Geometry and ..., 2000 - www.faculty.cs.uiuc.edu

... manipulate, which facilitate the use of simple **data** structures to ... For example, we can use a **CAD** package to design ... The **geometric** model will then be used for the ...

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[A new approach to free-form surface mesh control in a CAD environment - group of 2 »](#)

F Noel, JC Leon, P Trompette - International Journal for Numerical Methods in Engineering, 1995 - doi.wiley.com

... **CAD** software and that G contains all the **geometric** entities required as basis of the ... problem, two ways can be thought of to build the classification **data**: ...

[Cited by 11](#) - [Web Search](#) - [BL Direct](#)

[Parallel automated adaptive analysis - group of 5 »](#)

MS Shephard, JE Flaherty, CL Bottasso, HL de ... - Parallel Computing, 1997 - sokocalo.engr.ucdavis.edu

... attributes (BC's, parameters) defined in terms of **CAD** model ... **GEOMETRIC DOMAIN ENTITIES MESH ADJACENCIES** ... Three steps n Mark for motion n Migrate **data** n Update ...

[Cited by 16](#) - [View as HTML](#) - [Web Search](#)

[Numerical simulation of a blast inside a Boeing 747 - group of 2 »](#)

JD Baurn, H Luo, R Löhner - AIAA Paper, 1993 - pdf.aiaa.org

... the simu- lation of flows about such complex **geometry** structures ... In addition to basic **CAD- CAM** operations (shrinking ... to about 360 Mbytes of binary **data** for a ...

[Cited by 21](#) - [Web Search](#)

[Automatic data segmentation for geometric feature extraction from unorganized 3-D coordinate points - group of 2 »](#)

J Huang, CH Meng - Robotics and Automation, IEEE Transactions on, 2001 - ieeeexplore.ieee.org

... However, this design change is not reflected in the **CAD** model unless ... **HUANG AND MENG: AUTOMATIC DATA SEGMENTATION FOR GEOMETRIC FEATURE EXTRACTION** ...

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